

### **Coastal Protection and Restoration Authority of Louisiana**

# Office of Coastal Protection and Restoration

## **2010 Annual Inspection Report**

### **Jonathan Davis Wetland Protection**

State Project Number BA-20 Priority Project List 2

December 15, 2010 Jefferson Parish

Prepared by:

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#### I. Introduction

The Jonathan Davis Wetland Protection (BA-20) project is located in Jefferson Parish within the Barataria Basin. It encompasses 7,199 acres (2,880 ha) of wetlands, which were classified as intermediate marsh in 1994 (OCPR 1998). The project is bounded on the north by the Pailet Canal, on the east by La. Hwy. 301, on the south by Bayous Perot and Rigolettes, and on the west by the Gulf Intracoastal Waterway (GIWW) (Appendix A).

#### **II.** Project Description and History

Overall, 1,393 ac (557 ha) of land within the Jonathan Davis Wetland Protection project area have been converted to open water between 1945 and 1989 (Coastal Environments Inc. 1991). The average rate of change of marsh to non-marsh (including loss to both open water and commercial development) has increased since the 1940s. National Biological Survey (NBS) Geographic Information System (GIS) habitat data from 1956 characterized the majority of the area as fresh marsh. However, the 1978 and 1990 data indicate that the area has become more saline. In both 1978 and 1990, the area was classified as primarily intermediate marsh. Chabreck and Linscombe (1988) also characterize the area as intermediate marsh.

Large scale factors influencing degradation in the Barataria basin include subsidence, lack of sedimentation, and reduced freshwater influx due to the levee system on the Mississippi River and its major distributaries. To compound this problem, there are no major external sources of inorganic sediment into the project area although some sediment does enter via the GIWW. Moreover, storm surges moving through numerous oil field canals within the area have facilitated the export of a large portion of the indigenous inorganic and organic sediments.

Other factors influencing wetland loss within the project area are increased water exchange, saltwater intrusion, tidal scour, and shoreline erosion along Bayous Perot and Rigolettes. Shoreline erosion from 1945 to 1989 caused primarily by wave action along Bayou Perot has been measured at 20 ft/yr (6.1 m/yr). Saltwater intrusion and tidal scour are believed to have been enhanced with the construction of various oil field canals that were dredged in the 1940s when oil companies were not responsible for maintaining a continuous spoil bank along the canals. As a result, the breaches that occurred were not repaired and subsequently exposed the interior marsh to increased tidal flows and salinity during storm surges.

Project features consist of shoreline protection, rock armored plugs, rock weirs, and weirs with boat bays. Construction Unit 1, which consists of project features 12, 13, 14, 15, 16, 17, 19, 20, and 21, was completed in September 1998. Construction Unit 2 was completed in May 2001. It encompassed installing a weir at structure 22, and shoreline protection from structures 20 to 22. Construction Unit 3, which consists of shoreline

protection extending from project feature 12, west to the Gulf Intracoastal Waterway, was completed on July 7, 2003. Construction of features 1, 2, 3, 6, 8, 9, 10, and 11 in the northern project area has been deferred due to the anticipated positive influence of Davis Pond Diversion, lack of funding, and land rights issues. (Appendix A)

On January 30, 2002, Stone Energy Corporation was issued a Coastal Use Permit to plug and abandon existing wells within the Jonathan Davis Wetland Protection Project. This work was completed on 7/18/02 and consisted of removing and replacing structures 13 & 19 to plug and abandon several existing wells located behind these structures. The cost associated with removing and replacing these structures was incurred entirely by Stone Energy Corporation. However, at the request of NRCS, OCPR was required to provide inspection services for this project. OCPR obtained the services of GSE Associates, Inc. to inspect construction activities and prepare a project completion report and as-built drawings. These services were performed for a total cost of \$9,394.13.

As part of the construction documents prepared by NRCS for this project, Stone Energy Corporation was required to reconstruct structure 13, increasing the boat bay crest from 50' to 100' in width and raising the crest elevation from -5.0' NGVD to -2.5' NGVD.

No other maintenance work has been performed on this project since the completion of Construction Unit 1.

#### **III.** Inspection Purpose and Procedures

The purpose of the annual inspection of the Jonathan Davis Wetland Protection (BA-20) project is to evaluate the constructed project features to identify any deficiencies and prepare a report detailing the condition of project features and recommended corrective actions needed. Should it be determined that corrective actions are needed, OCPR shall provide, in the report, a detailed cost estimate for engineering, design, supervision, inspection, and construction contingencies, and an assessment of the urgency of such repairs (O&M Plan March 18, 2002). The annual inspection report also contains a summary of maintenance projects and an estimated projected budget for the upcoming three (3) years for operation, maintenance and rehabilitation. The three (3) year projected operation and maintenance budget is shown in Appendix C. A summary of past operation and maintenance projects completed since completion of the project are outlined in Section II.

An inspection of the Jonathan Davis Wetland Protection (BA-20) project was held on May 18, 2010, by Barry Richard of OCPR and Quin Kinler of NRCS. There was a light wind and clear skies. Photographs of that inspection are included in Appendix B of this report.

#### **IV.** Inspection Results

#### **Construction Unit No. 1**

#### Structure No. 12 – Rock rip-rap armored plug

The structure is in good condition. There is some slight settling near the edge of the plug adjacent to the two signs. All of the signs and supports were in good condition. At this time there is no need for any maintenance work to be done at this structure.

#### Structure No. 13 – Rock rip-rap armored weir w/ boat bay

Due to high tides the structure was not visible. All signs and supports are in good condition. No maintenance will be required at this time.

#### Structure No. 14 – Rock rip-rap armored plug

Upon a visual inspection, we noticed a large breach on the west side of the structure and in the center of the structure (Photo #1). Due to poor soil conditions, this structure has experienced significant settlement problems since the time it was constructed. Several attempts were made during construction to stabilize the structure by placing several lifts of rock, but the structure continued to settle. It was discussed that the breach leading into a small bayou was not a problem at this time, but the construction contract for Construction Unit 4 will include refurbishment of the structure to elevation 3.5 NAVD88.

#### Structure No. 15 – Rock rip-rap weir w/ boat bay

Structure 15 appeared to be in good condition at the time of the inspection with little or no noticeable settlement of the rock weir. Signs and supports were also in good condition. The original design of this structure was modified to include a boat bay to accommodate oilfield activities and navigation on the interior marsh of the structure. This structure will be modified during the construction contract for Construction Unit 4 so that it represents the original design as a channel plug with an elevation of 3.5NAVD88.

#### Structure No. 16 – Rock rip-rap channel plug

Structure 16 was difficult to inspect due to the amount of vegetation growing on the structure. (Photo #2) Assume no change and plan for future maintenance work for this structure.

#### Structure No. 17 – Rock rip-rap channel plug

During the inspection, we observed significant settlement near the warning sign on the south side of the structure and just east of the warning sign on the north side of the structure. (Photo #3) This structure will be refurbished to an elevation of 3.5 NAVD88 during the construction contract for Construction Unit 4.

#### Structure No. 19 – Rock rip-rap weir w/ boat bay

Structure 19 appeared to be in good condition. High tides prevented us from viewing the entire structure. The warning signs and supports were also in good condition. NRCS and OCPR agree that this structure will not require maintenance.

#### Structure No. 20 – Rock rip-rap armored plug

The structure appeared to be in good condition with no signs of settlement of the rock weir. The warning signs and supports were also in good condition. The structure was heavily vegetated at the time of inspection. NRCS and OCPR agree that this structure will not require maintenance.

#### Structure No. 21 – Rock rip-rap armored plug

The rock armored plug appeared to be in good condition with slight settlement on the east side of the structure. This was hard to fully assess due to the amount of vegetation on the structure. OCPR and NRCS agree that the structure will not require maintenance at this time.

#### **Construction Unit No.2**

#### Structure No. 22 A – Canal bank stabilization

The structure looked to be in good condition. There were few signs of settlement along the bank stabilization. (Photo #4) OCPR and NRCS agree that maintenance of this structure is not needed at this time.

#### Structure No.22 – Steel sheet pile weir w/ boat bay

The structure itself appears to be in good condition along with the signs, supports, and sheet pile caps. OCPR and NRCS agree that this structure will require no work at this time.

#### Bayou Rigolettes Bank Stabilization

The rock dike along the northern shore of Bayou Rigolettes appears to be in good condition with a few signs of settlement. Any maintenance work required will be completed in a future maintenance event.

#### **Construction Unit No.3**

#### Bayou Perot Bank Stabilization

The Bayou Perot Bank Stabilization looks good. There was some erosion noticed at the western most portion of the West Reach of the structure, however this area is highly vegetated and anticipated to stabilize. There was also some settlement noticed between Sta. 90+00 and 92+00. It is agreed that some maintenance work is needed for this structure.

#### V. Conclusions

Overall this project has proven very effective in reducing shoreline erosion. With the exception of the few locations where the individual structures and the rock dike bank stabilization is experiencing more rapid settlement, the structures have proven to be very stable. The project features mentioned above will all be tied together with the completion of Construction Unit 4 which will provide a stronger, more stable shoreline protection system. Construction Unit 4 will also provide maintenance for Structures 14, 15, and 17.

#### VI. Recommendations

Construction Unit 4 will provide maintenance for Structures 14, 15, and 17. There is no need for any other maintenance activity at this time.

#### **Immediate Repairs**

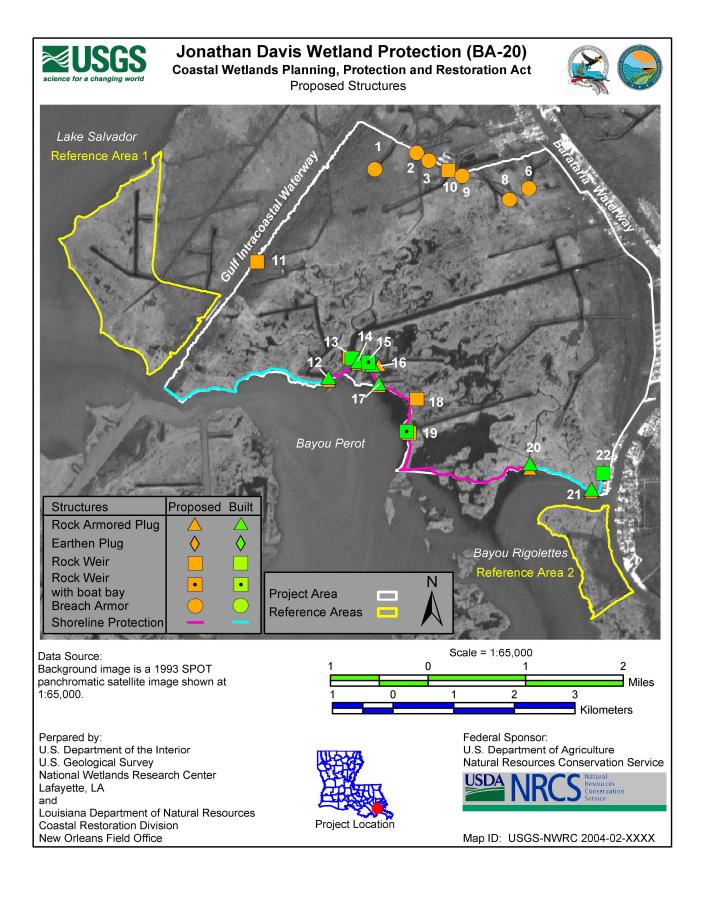
• Construction Unit 4 will provide maintenance for Structures 14, 15, and 17. No other repairs are needed at this time.

#### **Programmed Maintenance**

• Continue to monitor the condition of all structures.

### Appendix A

**Project Features Map** 



**Appendix B** 

**Photographs** 



Photo #1 - Structure #14 (Note Gap)



**Photo #2 – Structure #16 (Note Vegetation)** 



**Photo #3 – Structure #17 (Low Spot on Right)** 



Photo #4 – Structure #22A

## Appendix C

**Three Year Budget Projection** 

		tion Project / BA-20 / PPL	
Three-Year Ope	erations & Maintenand	ce Budgets 07/01/2010	- 06/30/2013
Project Manager	O & M Manager	Federal Sponsor	Prepared By
Barry Richard	Barry Richard	NRCS	Barry Richard
	2010/2011	2011/2012	2012/2013
Maintenance Inspection	\$3,703.00	\$3,799.00	\$3,898.00
General Maintenance	\$0.00	\$0.00	\$0.00
Structure Operation	\$0.00	\$0.00	\$0.00
Administration	\$0.00	\$0.00	\$0.00
Maintenance/Rehabilitation			
10/11 Description:			
E&D	\$0.00		
Construction	\$0.00		
Construction Oversight	\$0.00		
Sub Total - Maint. And Rehab.	\$ -		
11/12 Description:			
E&D		\$0.00	
Construction		\$0.00	
Construction Oversight		\$0.00	
Construction Oversignt	Sub Total - Maint. And Rehab.	\$ -	
	Sub Total - Maint. And Heriab.	Ф -	
12/13 Description:	'		
E&D			\$0.00
Construction			\$0.00
Construction Oversight			\$0.00
J		Sub Total - Maint. And Rehab.	\$ -
	2010/2011	2011/2012	2012/2013
Total O&M Budgets	\$ 3,703.00	\$ 3,799.00	\$ 3,898.00
. C.a. Cam Daagoto	7 0,100100	<b>4</b> 3,7 33133	7 3,333.00
O &M Budget (3 yr To	otal)		\$ 11,400.00
Unexpended O & M B			\$ 7,222,043.62
Remaining O & M Bu			\$ 7,210,643.62

## OPERATION AND MAINTENANCE BUDGET WORKSHEET 2010/2011

	DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED TOTAL		
	O&M Inspection and Report		EACH	1	\$3,703.00	\$3,703.00	
	General Structure Maintenance	LUMP	1	\$0.00	\$0.00		
	Engineering and Design	LUMP	1	\$0.00	\$0.00		
	Operations Contract		LUMP	1	\$0.00	\$0.00	
	Construction Oversight		LUMP	1	\$0.00	\$0.00	
				INISTRAT		,	
	LDNR / CRD Admin.		LUMP	1	\$0.00	\$0.00	
	FEDERAL SPONSER Admin.		LUMP	1	\$0.00	\$0.00	
	SURVEY Admin.		LUMP	1	\$0.00	\$0.00	
	OTHER					\$0.00	
				TOTAL ADMI	INISTRATION COSTS:	\$0.00	
			<u> </u>				
	SURVEY	N	IAINTENAN	CE / CONS	STRUCTION		
SURVEY	SONVET						
ESCRIPTION:	Secondary Monument		EACH	0	\$0.00	\$0.00	
	Staff Gauge / Recorders		EACH	0	\$0.00	\$0.00	
	Marsh Elevation / Topography		LUMP	0	\$0.00	\$0.00	
	TBM Installation		EACH	0	\$0.00	\$0.00	
	Structure Survey		LUMP	1	\$0.00	\$0.00	
	Otractare ourvey		LOWI		TAL SURVEY COSTS:	\$0.00	
OF OTF OU	GEOTECHNICAL						
GEOTECH DESCRIPTION:							
DECOMI MON.	Borings		EACH	0	\$0.00	\$0.00	
	OTHER		LATOIT	U	φ0.00	\$0.00	
	OTTEN			TOTAL GE	OTECHNICAL COSTS:	\$0.00	
						φοιοσ	
	CONSTRUCTION						
ONSTRUCTION DESCRIPTION:							
	Rip Rap	LIN FT	TON/FT	TONS	UNIT PRICE		
		0	0.0		\$0.00	\$0.00	
		0	0.0	0	\$0.00	\$0.00	
		0	0.0	0	\$0.00	\$0.00	
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00	
	Navagation Aid		EACH	0	\$0.00	\$0.00	
	Signage		EACH	0	\$0.00	\$0.00	
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00	
	Dredging		CU YD	0	\$0.00	\$0.00	
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00	
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00	
	Timber Members (each or lump su	ım)		0	\$0.00	\$0.00	
	Hardware	<u> </u>	LUMP	1	\$0.00	\$0.00	
	Materials		LUMP	1	\$0.00	\$0.00	
	Mob / Demob		LUMP	1	\$0.00	\$0.00	
	Contingency		LUMP	1	\$0.00	\$0.00	
	General Structure Maintenance (ca	ap 15%)	LUMP	1	\$0.00	\$0.00	
	OTHER				\$0.00	\$0.00	
	OTHER				\$0.00	\$0.00	
	OTHER				\$0.00	\$0.00	
				TOTAL CO	NSTRUCTION COSTS:	\$0.00	

### **OPERATION AND MAINTENANCE BUDGET WORKSHEET 2011/2012**

	DESCRIPTION		UNIT	EST. QTY.	UNIT PRICE	ESTIMATED TOTAL	
	O&M Inspection and Report		EACH	1	\$3,799.00	\$3,799.00	
	General Structure Maintenance	LUMP	1	\$0.00	\$0.00		
	Engineering and Design	LUMP	1	\$0.00	\$0.00		
	Operations Contract		LUMP	1	\$0.00	\$0.00	
	Construction Oversight		LUMP	1	\$0.00	\$0.00	
	[			MINISTRAT			
	LDNR / CRD Admin.		LUMP	0	\$0.00	\$0.00	
	FEDERAL SPONSER Admin. SURVEY Admin.		LUMP LUMP	0	\$0.00	\$0.00	
	OTHER		LUMP	U	\$0.00	\$0.00 \$0.00	
	OTHER		1 .	TOTAL ADM	INISTRATION COSTS:	\$0.00	
						Ψ0.00	
		IV	IAINTENAN	CE / CONS	STRUCTION		
	SURVEY						
SURVEY SCRIPTION:							
COLIN HOIN.	Secondary Monument		EACH	0	\$0.00	\$0.00	
	Staff Gauge / Recorders		EACH	0	\$0.00	\$0.00	
	Marsh Elevation / Topography		LUMP	0	\$0.00	\$0.00	
	TBM Installation		EACH	0	\$0.00	\$0.00	
	OTHER					\$0.00	
				то	TAL SURVEY COSTS:	\$0.00	
	GEOTECHNICAL						
SEOTECH SCRIPTION:							
301111 11014.	Borings		EACH	0	\$0.00	\$0.00	
	OTHER			Ů	ψ0.00	\$0.00	
				TOTAL GE	OTECHNICAL COSTS:	\$0.00	
						7535	
	CONSTRUCTION						
STRUCTION			•				
CRIPTION:	Rip Rap	LIN FT	TON/FT	TONS	UNIT PRICE		
	Πιρπαρ	0	0.0	0	\$0.00	\$0.00	
		0	0.0	0	\$0.00	\$0.00	
		0	0.0	0	\$0.00	\$0.00	
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00	
	Navagation Aid		EACH	0	\$0.00	\$0.00	
	Signage		EACH	0	\$0.00	\$0.00	
	General Excavation / Fill		CUYD	0	\$0.00	\$0.00	
	Dredging		CUYD	0	\$0.00	\$0.00	
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00	
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00	
	Timber Members (each or lump sum)			0	\$0.00	\$0.00	
	Hardware		LUMP	1	\$0.00	\$0.00	
	Materials Mah / Domah		LUMP	1	\$0.00	\$0.00	
	Mob / Demob Contingency		LUMP	1	\$0.00	\$0.00	
	General Structure Maintenance		LUMP LUMP	1	\$0.00 \$0.00	\$0.00 \$0.00	
	OTHER		LOIVIE	'	\$0.00	\$0.00	
	OTHER				\$0.00	\$0.00	
	OTHER				\$0.00	\$0.00	
			1	TOTAL COI	NSTRUCTION COSTS:	\$0.00	
						7	

#### **OPERATION AND MAINTENANCE BUDGET WORKSHEET 2012/2013** Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2 ESTIMATED EST. DESCRIPTION UNIT UNIT PRICE TOTAL QTY FACH \$3.898.00 O&M Inspection and Report \$3,898.00 LUMP General Structure Maintenance 1 \$0.00 \$0.00 Engineering and Design LUMP 1 \$0.00 \$0.00 LUMP Operations Contract \$0.00 \$0.00 1 Construction Oversight LUMP \$0.00 \$0.00 **ADMINISTRATION** LDNR / CRD Admin. LUMP \$0.00 \$0.00 FEDERAL SPONSER Admin. LUMP \$0.00 \$0.00 0 SURVEY Admin. LUMP 0 \$0.00 \$0.00 OTHER \$0.00 TOTAL ADMINISTRATION COSTS \$0.00 MAINTENANCE / CONSTRUCTION SURVEY SURVEY DESCRIPTION: Secondary Monument EACH \$0.00 \$0.00 Staff Gauge / Recorders EACH \$0.00 \$0.00 Marsh Elevation / Topography LUMP 0 \$0.00 \$0.00 TBM Installation **EACH** \$0.00 0 \$0.00 OTHER \$0.00 TOTAL SURVEY COSTS \$0.00 GEOTECHNICAL GEOTECH DESCRIPTION: EACH Borings 0 \$0.00 \$0.00 OTHER \$0.00 TOTAL GEOTECHNICAL COSTS \$0.00 CONSTRUCTION CONSTRUCTION DESCRIPTION: Rip Rap LIN FT TON/FT TONS **UNIT PRICE** \$0.00 0.0 0 \$0.00 0 \$0.00 \$0.00 0 0.0 0 0 0.0 0 \$0.00 \$0.00 Filter Cloth / Geogrid Fabric SQ YD 0 \$0.00 \$0.00 EACH \$0.00 \$0.00 Navagation Aid 0 Signage **EACH** 0 \$0.00 \$0.00 CU YD General Excavation / Fill 0 \$0.00 \$0.00 CU YD \$0.00 \$0.00 Dredging 0 Sheet Piles (Lin Ft or Sq Yds) 0 \$0.00 \$0.00 Timber Piles (each or lump sum) 0 \$0.00 \$0.00 Timber Members (each or lump sum) 0 \$0.00 \$0.00 Hardware LUMP \$0.00 \$0.00 LUMP \$0.00 Materials \$0.00 Mob / Demob LUMP \$0.00 \$0.00 1 LUMP \$0.00 \$0.00 Contingency General Structure Maintenance LUMP \$0.00 \$0.00 OTHER \$0.00 \$0.00 OTHER \$0.00 \$0.00 OTHER \$0.00 \$0.00 TOTAL CONSTRUCTION COSTS \$0.00 TOTAL OPERATIONS AND MAINTENANCE BUDGET:

\$3,898.00

### Appendix D

**Field Inspection Form** 

			MAINTENA	NCE INSPECT	TON REPORT CHECK SHEET				
Project No. / Na	me: <b>BA-20 Jonat</b>	han Davis Wetland	<u>d</u>		Date of Inspection:	5/18/2010	Time: <u>9:30 am</u>		
Structure No	Construction U	nit No.1 -Site No. 12	2		Inspector(s): Richard, Kinler				
Structure Descr	iption: Rock rip-ra	ap armored plug			Water Level	Inside: N/A	Outside: <u>1.36'</u>		
Type of Inspect	ion: Annual, Post S	Storm, other	Annual		Weater Co	nditions: <u>Clear Ski</u>	es, Light Wind		
Item	Condition	Pysical Damage	Corrosion	Photo #	Observ	vations and Remar	rks		
Signage and supports	Good								
					Observations:				
Armored Plug					There have been no changes since the last inspection.				
	Good				NRCS and OCPR agree that no mai	intenance required a	t this time.		
Earthen									
Embankment	Good								
Construction U	nit No.1								
Structure Descri	otion: 294 linear ft.	rock rip-rap armored	rock-filled plug	located in a					
		ot, west of Bayou Bar			, in the second				
		elevation of $+3.9$ ft. NO							
·		n 2,518 tons of rip-rap		ium					
warning signs are	e also located throu	igh the rock embankn	nent.						

	MAINTENANCE INSPECTION REPORT CHECK SHEET											
Project No. / Na	ame: <b>BA-20 Jonat</b>	han Davis Wetland	<u>d</u>		Date of Inspection:	5/18/2010	Time: <u>9:30 am</u>					
Structure No	Construction U	nit No.1 -Site No. 13	<u> </u> 		Inspector(s): Richard, Kinler							
Structure Descr	ription: Rock rip-ra	p armored weir			Water Level	Inside: N/A	Outside: <u>1.36'</u>					
Type of Inspec	tion: Annual, Post S	Storm, other	Annual		Weater Co	onditions: <u>Clear Ski</u>	es, Light Wind					
Item	Condition	Pysical Damage	Corrosion	Photo #	Obser	vations and Remar	·ks					
Signage and					Observations:							
supports	Good				There have been no changes since							
					agree that this structure is in good condition and will not require maintenance at							
Armored Plug					this time.							
	Good				High tides prevented us from viewin	g the structure.						
Earthen												
Embankment	Good											
	1											
0	mit Ni a d											
Construction U												
		rock rip-rap armored										
		u Perot and Site 12, w weir is set at an eleva										
		vation of -5.0 ft. NGVI . NGVD. On the wes										
		k filled weir contains										
		warning signs are lo	·									
	ap annor. Aluminum	warning signs are io	cateu aujacent	to trie								
structure.												

			MAINTENA	NCE INSPECT	ION REPORT CHECK SHEET			
Project No. / Na	me: <b>BA-20 Jonat</b>	han Davis Wetland	<u>d</u>		Date of Inspection: 5	5/18/2010	Time: <u>9:30 am</u>	
Structure No	Construction U	nit No.1 -Site No. 14	1 <u> </u>		Inspector(s): Richard, Kinler			
Structure Descr	iption: Rock rip-ra	ap armored plug			Water Level	Inside: N/A	Outside: 1.36	
Type of Inspect	ion: Annual, Post S	Storm, other	Annual		Weater Co	nditions: <u>Clear Skie</u>	es, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #		ations and Remark	KS	
Signage and					Observations:			
supports	Good			1	There have been no changes since t			
					Repairs will be made during a fture r	maintenance event.		
Armored Plug								
	Poor			1				
Earthen								
Embankment	Fair			1				
Construction U	nit No 1							
		of rock rip-rap armore	ed rock filled ch	annel nlug				
		f Bayou Perot, west o						
		he plug was construc						
		2,580 tons of rock fill						
		gns are located throug						
np rap annor. All	Jimiani waning sig	grio are located trilout	gir and rook ciris	Januarion.				

			MAINTENA	NCE INSPECT	ION REPORT CHECK SHEET		
Project No. / Nar	me: <b>BA-20 Jonat</b>	than Davis Wetland	<u>d</u>		Date of Inspection: 5/	/18/2010	Time: <u>9:30 am</u>
Structure No	Construction U	Init No.1 -Site No. 15	5		Inspe	ector(s): Richard,	Kinler
Structure Descri	Structure Description: Rock rip-rap armored weir w/ bo				Water Level	Inside: <u>N/A</u>	Outside: <u>1.36'</u>
Type of Inspecti	on: Annual, Post S	Storm, other	Annual		Weater Con	ditions: <u>Clear Ski</u> e	es, Light Wind
Item	Condition	Pysical Damage	Corrosion	Photo #	Observa	ations and Remar	ks
Signage and							
supports	Good				Observations:		
					There have been no changes since the	ne last inspection.	
Armored Plug					Repairs will be made during a future r	maintenance event.	
	Good						
Rock weir							
	Good						
					Remarks:		
Earthen					The original design of this structure w	as modified to a ro	ck weir with boat bay to
Embankment	Good				accommodate oilfield activities and na	avigation on the inte	erior of the structure.
					During above mentioned maintenance	e this structure will	be converted to a rock
					plug.		
Construction Un	it No.1						
Structure Descrip	tion: 132 linear ft.	of rock rip-rap armore	ed weir with a 5	0 ft. wide			
		el north of Bayou Per					
		The crest of the rock					
	elevation of +4.0 ft. NGVD. The invert of the boat bay is at and elevation of -3.0 ft.						
The rock filled weir contains 1,248 tons of rock fill with and 728 tons of rock rip-rap							
		igns are located throu					
	each side of the bo		<u> </u>				
		,					

			MAINTENA	NCE INSPECT	ION REPORT CHECK SHEET			
Project No. / Na	me: <b>BA-20 Jona</b> t	than Davis Wetland	<u>d</u>		Date of Inspection: 5	5/18/2010	Time: <u>9:30 am</u>	
Structure No	Construction U	Jnit No.1 -Site No. 16	<u> </u>		Inspector(s): Richard, Kinler			
Structure Descr	ption: Rock rip-ra	ap armored plug			Water Level	Inside: <u>N/A</u>	Outside: <u>1.36'</u>	
Type of Inspect	ion: Annual, Post	Storm, other	Annual		Weater Co	nditions: <u>Clear Ski</u>	es, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #	Observ	ations and Remar	ks	
Signage and supports	Good			2				
Armored Plug	nored Plug Fair				Observation: There have been no changes since the last inspection. Repairs will be made during a future maintenance event.			
Earthen					nepairs will be made during a luture	maintenance event	•	
Embankment	Good			2				
					Remarks:			
Construction U								
		I rock filled plug locate Barataria, east of the						
		an elevation of $+4.0$						
		and 1,766 tons of rock		. ,		·		
aluminum warnin	g signs are located	d through the rock plug	g embankment.					

	ı		MAINTENA	NCE INSPECT	ION REPORT CHECK SHEET			
Project No. / Na	me: <b>BA-20 Jonat</b>	han Davis Wetland	<u>d</u>		Date of Inspection:	5/18/2010	Time: <u>9:30 am</u>	
Structure No	Construction U	nit No.1 -Site No. 17	7		Inspector(s): Richard, Kinler			
Structure Descri	ption: Rock rip-ra	ap armored plug			Water Level	Inside: N/A	Outside: <u>1.36'</u>	
Type of Inspecti	on: Annual, Post	Storm, other	Annual		Weater Co	nditions: <u>Clear Ski</u>	es, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #	Observ	ations and Remar	ks	
Signage and supports	Good			3				
Armored Plug	Fair			3	Observation: There have been no changes since the last inspection. Repairs will be made during a future maintenance event.			
Earthen					Trepairs will be made during a ruture	maintenance event	•	
Embankment	Good			3	Remarks:			
Construction Ur		of rock rip-rap armor	red rock filled pl	lug located				
in a pipeline chan the GIWW. The c	nel north of Bayou rest of the plug wa	Perot, west of Bayou s constructed to an e	Barataria, and levation of 3.8'					
		f rock fill and 1,201 to by galvanized pipe ar						
rock embankmen		, , ,						

			MAINTENA	NCE INSPECT	ION REPORT CHECK SHEET			
Project No. / Na	me: <b>BA-20 Jona</b>	than Davis Wetland	<u> </u>   <u> </u>		Date of Inspection: <u>5/18/2010</u> Time: <u>9:3</u>		Time: <u>9:30 am</u>	
Structure No	Construction L	Jnit No.1 -Site No. 19	)		Inspector(s): Richard, Kinler			
Structure Descr	iption: Rock rip-ra	ap armored weir			Water Level	Inside: N/A	Outside: <u>1.36'</u>	
Type of Inspect	ion: Annual, Post	Storm, other	Annual		Weater Co	nditions: <u>Clear Ski</u>	es, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #	Obser	vations and Remar	ks	
Signage and supports	Good				Observation:			
Armored Plug	Good				There have been no changes since the last inspection. NRCS and OCPR agree that this structure does not need maintenance at this time.			
Earthen Embankment	Good							
	otion: 239 linear ft	of rock rip-rap armor						
of Bayou Perot, a	and west of Bayou	Barataria. The crest o the north side and +2.	f the weir was o	constructed	<del>2</del>			
contains 1,014 to	ns of rock fill with 5	an elevation of -2.5 ft. 572 tons of rock rip-ra e barge bay through tl	o armor. Alumii	num waring				
_		<u> </u>						

			MAINTENA	NCE INSPECT	TION REPORT CHECK SHEET				
Project No. / Na	ame: <b>BA-20 Jonat</b>	han Davis Wetland	<u>d</u>		Date of Inspection:	<u>5/18/2010</u>	Time: <u>9:30 am</u>		
Structure No	Construction U	nit No.2 -Site No. 20	0		Inspector(s): Richard, Kinler				
Structure Descr	ription: Rock rip-ra	p armored plug			Water Level	Inside: N/A	Outside: 1.36'		
Type of Inspect	tion: Annual, Post S	Storm, other	Annual		Weater Co	onditions: <u>Clear Ski</u>	es, Light Wind		
Item	Condition	Pysical Damage	Corrosion	Photo #	Obser	vations and Remar	rks		
Signage and supports	Good								
Armored Plug					Observation:				
	Good				There have been no changes since required at this time. Will monitor this				
Earthen									
Embankment	Good								
Construction U									
		of rock rip-rap armore							
		ayou Barataria, and evation of +4.0 ft. NG\							
		95 tons of rock rip-ra							
		on each end of the s							
armored rock plu									

			MAINTENA	NCE INSPECT	TION REPORT CHECK SHEET			
Project No. / Na	me: <b>BA-20 Jona</b> t	than Davis Wetland	<u>d</u>	Date of Inspection: 5	5/18/2010	Time: <u>9:30 am</u>		
Structure No	Construction L	Jnit No.2 -Site No. 2	<u>1</u>		Inspector(s): Richard, Kinler			
Structure Descri	ption: Rock rip-ra	ap armored plug			Water Level	Inside: <u>N/A</u>	Outside: <u>1.36'</u>	
Type of Inspection: Annual, Post Storm, other			Annual		Weater Conditions: Clear Skies, Light Wind			
Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks			
Signage and supports	Good							
Armored Plug	Good				Observation: There have been no changes since the last inspection. No maintenance will be required at this time.			
Earthen Embankment	Good				be required at this time.			
north of Bayou Ri	otion: 83 linear ft. o	of rock rip-rap armore Bayou Barataria, and e	east of Bayou P	erot. The				
contains 285 tons aluminum warnin	of rock fill and 220	evation of +4.0 ft. NG\ 0 tons of rock rip-rap by galvanized pipe ar	armor. Two (2)					
GIA OI IIIG SIIUCIU	ile unough the rock	A CHIDANKITICIL.						

MAINTENANCE INSPECTION REPORT CHECK SHEET									
Project No. / Na	ume: <b>BA-20 Jona</b>	than Davis Wetland	<u>d</u>		Date of Inspection:	5/18/2010	Time: <u>9:30 am</u>		
Structure No	tructure No. Construction Unit No.2 -Site No. 22A				Ins	Inspector(s): Richard, Kinler			
Structure Descr	iption: Canal Bar	nk Stabilization			Water Level	Inside: N/A	Outside: <u>1.36'</u>		
Type of Inspect	tion: Annual, Post	Storm, other	Annual		Weater Conditions: <u>Clear Skies</u> , <u>Light Wind</u>				
Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks				
Signage and									
supports	Good			4					
Darla Assarana					Observation:	Hara Tarak Saraharan Maria II	No see Seeke see see See		
Rock Armored	0 1				There have been no changes since the last inspection. No maintenance is				
Bank	Good			4	required at this time.				
Earthen									
Embankment	Good			4					
Construction U	nit No.2								
Structure Descri	ption: Canal bank	stabilization consistin	ig of 1,385 linea	r ft. of rock					
		of the access channe		ar Point					
Subdivision. The rip-rap was constructed to an elevation of +3.0 ft.									

			MAINTENA	NCE INSPECTI	ON REPORT CHECK SHEET			
Project No. / Na	me: <b>BA-20 Jonat</b>	han Davis Wetland	<u>d</u>		Date of Inspection:	5/18/2010	Time: <u>9:30 am</u>	
Structure No	Structure No. Construction Unit No.2 -Site No. 22				Inspector(s): Richard, Kinler			
Structure Descri	ption: Steel shee	t pile structure w/ bo	eat bay		Water Level	Inside: N/A	Outside: <u>1.36'</u>	
Type of Inspection: Annual, Post Storm, other Annual			Annual		Weater Conditions: Clear Skies, Light Wind			
Item				Photo #	Observations and Remarks			
Steel Bulkhead / Caps	Good							
Handrails Hardware, etc.	Good				Observation: There have been no changes since required at this time.	the last inspection. N	No maintenance	
Signage and supports	Good				required at this time.			
Rock weir	Good							
Earthen Wingwalls	Good							
Rock Armored Earthen Embankment	Good							
O a material state of the	i Na O							
of +1.95 ft. and a off of Bayou Rego consists of a stee	otion: 58 linear ft. o 24' - 8-1/2" wide bo plettes, west of Bay el sheet pile weir wi	of steel sheet pile bull pat bay with a crest e you Barataria and eas ith 1,426 square feet	levation of -0.93 It of GIWW. The of sheet piling s	3 ft. located e structure et at +1.95 ft.				
invert of -0.93 ft.	This structure ties i	t. thick rock rip-rap so nto structure 22A on neter timber piles are	the west side. <i>A</i>	Numinum				

			MAINTENA	NCE INSPECT	TION REPORT CHECK SHEET			
Project No. / Na	me: <b>BA-20 Jonat</b>	han Davis Wetlan	<u>d</u>		Date of Inspection:	Date of Inspection: 5/18/2010		
Structure NoC	Construction Unit N	lo.2			Ins	Inspector(s): Richard, Kinler		
Structure Descri	iption: Rock dike	along Bayou Rigole	ttes		Water Level	Inside: N/A	Outside: <u>1.36'</u>	
Type of Inspection: Annual, Post Storm, other			Annual		Weater Conditions: Clear Skies, Light Wind			
Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks			
Signage and supports	Good							
Armored Plug								
	Good				Observation: There have been no changes since	the last inspection		
Rock Dike					Repairs will be made during a future			
	Good							
Earthen								
Embankment	Good							
Construction Ur								
		e consist of 3,967 line						
		of +3.5 ft. The shoreli	ne stabilization	extends				
rom Site 22A west to Structure No.20.								

			MAINTENA	NCE INSPEC	TION REPORT CHECK SHEET			
Project No. / Na	me: <b>BA-20 Jona</b>	than Davis Wetland	<u>d</u>	Date of Inspection:	Date of Inspection: 5/18/2010			
Structure No. C	Construction Unit I	No.3			Insp	Inspector(s): Richard, Kinler		
Structure Descri	ption: Rock dike	along Bayou Perot			Water Level	Inside: N/A	Outside: <u>1.36'</u>	
Type of Inspection: Annual, Post Storm, other			Annual		Weater Conditions: Clear Skies, Light Wind			
Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks			
Signage and supports	Good							
Armored Plug								
	Good				Observation:			
Dook Dika					There have been no changes since t			
Rock Dike	Good				Repairs will be made during a future	maintenance event.		
Earthen								
Embankment	Good							
							_	
Construction Ur		re consist of 10 000 line	oor ft of roots -	ilco with a				
		te consist of 13,088 line of $\pm 3.5$ ft. The shoreline						
	t to the Gulf Intracc		io stabilization	SALGI IUS				